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**Imagery analysis report**

## **Iraq/Iran Military Summary**

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**IRAQ/IRAN MILITARY SUMMARY.**

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1. (S/D) This report updates the most recent<sup>1</sup> in a series of imagery-derived reports on the Iraq/Iran conflict and covers the period from [ ] This report discusses deployed ground forces in the forward areas, rear garrison units (Figure 1), airfields, naval bases, commercial shipping, POL facilities, and related activity in Iraq, Iran, Saudi Arabia, North Yemen, and Turkey.

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[ ] Acronyms and abbreviations are defined in a glossary at the end of the report. Additional reports will be issued as the situation changes.

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**OVERVIEW**

2. (S/D) Imagery of the forward areas of conflict during the reporting period showed that Iraqi forces were still north and east of Abadan; however, the Iraqi PMP bridge north of Abadan over the Karun River had been destroyed/dismantled, and another PMP bridge had been erected over the river closer to Abadan. Iraqi and Iranian forces had been repositioned west and southwest of Ahvaz because of continued flooding. Iranian forces still controlled the city of Ahvaz. There was only limited coverage of the conflict areas around Dezful and Qasr-E Shirin. Seasonal weather conditions contributed to the lack of interpretable imagery in the forward areas.

3. (S/D) Most Iraqi combat units remained out of garrison during the reporting period; however, some nondivisional equipment had returned. Iraqi equipment that was still in garrison continued to be dispersed. Iranian rear garrisons exhibited little activity or change in status during the reporting period. Increased activity was observed in the Bandar-E Mashur/Bandar-E Shahpur area, additional equipment had been moved out of garrison in the Shiraz area, and BMP APCs were identified for the first time in southeastern Iran.

4. (S/D) FLOGGER aircraft and a BIG MAC navigational system were newly identified at Shaibah Airfield [ ] Iraq. The EW/GCI site at Zahedan Airfield [ ] Iran, was reoccupied.

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5. (S/D) Naval activity was seen at three Iraqi and four Iranian naval/port facilities.

6. (S/D) Additional damage was observed at two POL facilities in Iraq, and a large earthen berm was under construction at a third. Repair work was underway at one POL facility in Iran, and air defenses were increased at another.

7. (S/D) Related activity included continued berm construction at the Baghdad Nuclear Research Center [ ] and construction at Salman Pak Sensitive Operations Storage Facility (BE [ ] Iraq; heavy rail traffic at Dzhulfa and Jolfa, Iran; possible Iraqi resupply activity and aircraft activity in Saudi Arabia; and Iraqi aircraft activity in North Yemen.

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**GROUND FORCES ACTIVITY****Iraq/Iran Forward Areas****Khorramshahr-Abadan Area**

8. (S/D) The area occupied by the Iraqi armor and mechanized infantry brigades north and east of Abadan was only partially imaged during the reporting period (Figure 2). There was no apparent change in the size or disposition of those forces.

9. (S/D) On [ ] the Iraqi forces east of Abadan, discernible through the heavy clouds, included major elements of one armor battalion and one mechanized infantry battalion, supported by one AA battery.

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10. (S/D) Iranian forces deployed northeast of these Iraqi units included elements of one tank company and one mechanized infantry company on both sides of the Abadan-to-Bandar-E Mashur pipeline. The mechanized infantry company arrived in the area between [ ] The Iranian infantry unit reemployment area observed on [ ] immediately east of the tank company was not imaged.

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11. (S/D) On [ ] the Iraqi force north of Abadan, in the Dar Khuyeh Bridgehead Area [ ] was still deployed along the Abadan-to-Ahvaz pipeline. The previously identified PMP bridge over the Karun River, 12.5 nm north-northeast of the city, had been destroyed/dismantled. At least four possibly damaged pontons were on the west bank of the river. A new bridge had been erected 3 nm south of the old bridge at 30-30-11N 048-17-29E. The armor and mechanized infantry force near the old PMP bridge was not changed from [ ] One Iraqi tank battalion and one mechanized infantry battalion were on the east side of the Karun River, while one tank platoon, one mechanized infantry

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company, and three artillery batteries were on the west side of the river. The area west of the Karun, occupied by a mechanized infantry company on [ ] was not imaged. One Iraqi tank company, two mechanized infantry platoons, and a field-deployed logistics unit were just northeast of the newly erected bridge. 25X1

12. (S/D) Opposing Iranian forces were observed in an area from 16 to 25 nm north of Abadan on [ ]. The forces consisted of one tank platoon, two mechanized infantry companies, two mechanized infantry platoons, and elements of one FA battalion. 25X1

#### Ahvaz Area

13. (S/D) Portions of the Ahvaz area were observed through heavy clouds on [ ] Figure 3). Additional flooding in the previously reported area 9 nm west of Ahvaz forced the repositioning of both Iraqi and Iranian forces. The flooded area covered a large portion of the west and southwest approaches to Ahvaz. The area occupied by elements of two Iraqi armor brigades on [ ] was abandoned and was under water. The area to which these forces might have redeployed was obscured by cloud cover. Iraqi forces deployed between 9 and 16 nm west-southwest of Ahvaz consisted of elements of one tank battalion, three tank companies, and one mechanized infantry platoon supported by four FA batteries. Iraqi forces deployed between 18 and 26 nm west-northwest of Ahvaz consisted of one tank company, four tank platoons, one mechanized infantry company, and four mechanized infantry platoons supported by one FA battalion and one AA battery. An Iraqi-constructed antitank ditch had been lengthened at the western edge of the flooded area. Iraqi road construction was underway approximately 18 nm west of Ahvaz in an area immediately southwest of an Iraqi deployment. 25X1

14. (S/D) Iranian forces observed in defense of Ahvaz, deployed between 5 and 9 nm west-southwest of the city, consisted of two tank companies, two tank platoons, and three SPG batteries. This force has decreased in size since [ ] when one tank battalion and one mechanized infantry battalion were present. The area of their possible redeployment was obscured by cloud cover. Two SPG batteries have been deployed in this area since [ ]. Iranian forces between 5 nm and 20 nm northwest of Ahvaz consisted of two tank companies, six tank platoons, two mechanized infantry platoons, one SPG battery, one FA battery, and one field logistics supply point. 25X1

15. (S/D) Iranian-constructed antitank ditches have been excavated along the northwestern approach to Ahvaz at the northeastern edge of the flooded area. An additional large antitank trench, approximately 140 meters wide with a berm on both sides rising approximately [ ] above the level of the surrounding terrain, had been constructed in the northwestern sector of Ahvaz between [ ] (Figure 4). This trench, at least 5 nm long, extended beyond the eastern limits of coverage toward the Karun River. Three causeways had been constructed across the trench. 25X1

16. (S/D) Iranian construction of a causeway across the Karun River, 7.4 nm southwest of Ahvaz, had stopped. Approximately 50 percent of the causeway had been washed away by the river.

17. (S/D) At least five tanks and 50 APCs were still dispersed throughout Hamideyeh Barracks and Brigade Headquarters Dasht-E Mishan [ ] northwest of Ahvaz, on [ ]. 25X1

#### Dezful Area

18. (S/D) No Iraqi forces were visible through the heavy cloud cover that obscured much of the area west of Dezful on [ ]. 25X1

19. (S/D) Partial coverage of Iranian forces within 10 nm of Dezful, stretching from the northwest to the southwest quadrant, revealed one newly deployed (since [ ]) probable armor unit at 32-22-40N 048-10-25E, five previously identified mechanized infantry platoons, and one FA battery. 25X1

#### Qasr-E Shirin Area

20. (S/D) No Iraqi force deployment areas were imaged during the reporting period.

21. (S/D) No increase of equipment, new unit arrivals, or further departures were evident at Sar-E Pol-E Zahab Barracks and Brigade Headquarters and Depot ( [ ]) Iran, on [ ]. Elements of the Iranian armor brigade were still in garrison, and at least one tank company was still deployed immediately west (and forward) of the garrison. Four AH-1 Cobra and two AB-214 helicopters were on the parade field. Equipment and activity levels remained essentially unchanged on subsequent coverage of [ ]. An Iranian tank platoon and a mechanized infantry platoon were still deployed in a valley approximately 6.5 nm southeast of Pol-E Zohab on partial coverage of [ ]. 25X1  
25X1  
25X1

#### Rear Areas

22. (S/D) Imagery of 22 Iraqi rear area garrisons indicated that most of the combat units which departed their garrisons prior to or since the start of the conflict were still out of garrison. However, armor units departed garrison in the Falluja area, and a limited amount of nondivisional equipment (including FROGs) had returned to garrison by this reporting period. Continued dispersal of equipment which remained in garrison was observed in the Rawanduz, Kirkuk, Buzurgan, Diyanah, Balikayan, and Baghdad areas. Captured Iranian equipment was removed from the Az Zubayr area; also a high level of air defense activity was observed in the Kirkuk area.

(Continued p. 7)

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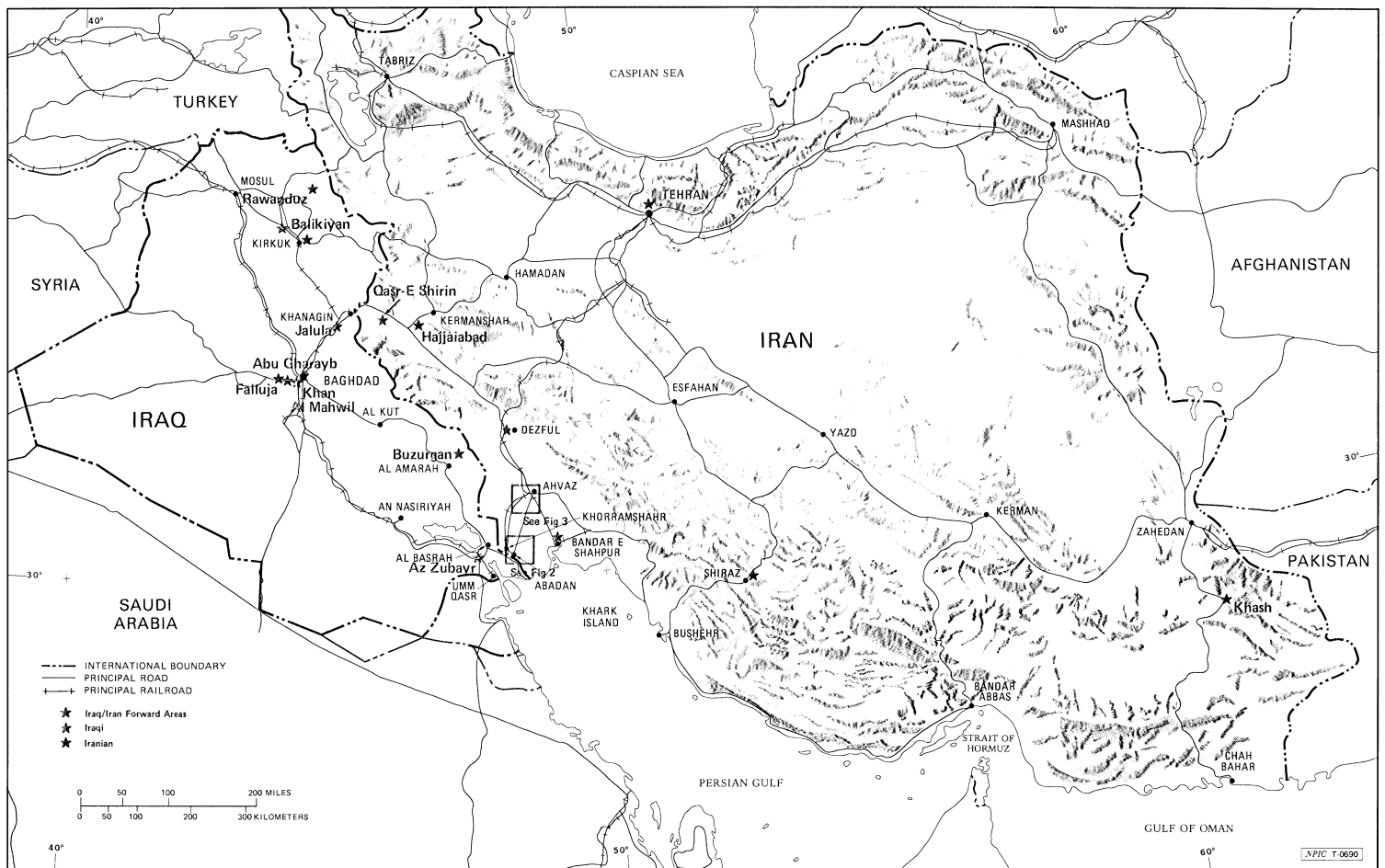


FIGURE 1. IRAQI/IRANIAN GROUND FORCES ACTIVITY

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23. (S/D) In Iran, coverage of rear area garrisons was limited. However, increased activity was observed in the Bandar-E Mashur/Bandar-E Shahpur area, mobilization of forces in the Shiraz area continued, training in the Tehran area continued, and BMP APCs were identified for the first time at a facility in southeastern Iran.

**Iraq**

24. (S/D) Major elements of three armor battalions and a mechanized infantry battalion departed Falluja Barracks and Vehicle Storage East [ ] between [ ] Five OT-62 and 25X1  
four BTR 60 APCs remained in garrison along with a chemical defense unit.

25. (S/D) The nondivisional units which returned to garrison by [ ] included elements of at 25X1  
least one FROG battalion (Figure 5), elements of a 130mm M-46 FA battalion, and a 122mm howitzer battalion  
at Khan Al Mahawil Barracks and Ammunition Depot [ ]. Three captured, Iranian 155mm M- 25X1  
109A1 SP guns were also at this installation for the first time.

26. (S/D) Major elements of a SCUD unit remained parked in revetments 2.2 nm southwest of Shaibah 25X1  
Airfield on [ ].

27. (S/D) The captured Iranian equipment which has been at Az Zubayr Barracks and Brigade Headquar- 25X1  
ters Southwest [ ] was removed by [ ].

28. (S/D) A new engineer battalion was identified 3 nm east of Buzurgan Northern Gas-Oil Separation 25X1  
Plant [ ]. A supply/transport unit was reported here on [ ] but 25X1  
was not imaged on [ ].

29. (S/D) A high level of air defense activity was observed in the Kirkuk area during the reporting period. 25X1  
One new SA-3 site was constructed between [ ] and another SA-3 site was newly 25X1  
occupied between [ ]. Also, SA-3 equipment had been removed from two SA-3 sites, 25X1  
and SA-2 equipment had been removed from one site by [ ]. Also on [ ] at least 20 SA-2 25X1  
canisters were being stored in the revetments at an unoccupied SA-2 site.

**Iran**

30. (S/D) In mid-December, military activity in support of the Iran/Iraq conflict was observed in the 25X1  
Bandar-E Mashur/Bandar-E Shahpur area (Figure 6). The activity included occupation of a HAWK SAM site,  
restoration of a formerly abandoned airfield, deployment of elements of two SP howitzer batteries, and the  
observation of AH-1 Cobra gunships and AB-214 helicopters (which can serve in an attack, reconnaissance, or  
transport role) in three locations. The increased defenses in this area were undoubtedly set up to aid Iranian  
forces deployed northeast of Abadan in preventing a further Iraqi incursion into Khuzestan.

31. (S/D) Military training at Tehran Military Barracks Saltanatabad [ ] continued 25X1  
throughout the month. No unusual activity was observed in other Tehran barracks areas imaged during the  
reporting period.

32. (S/D) One additional M-47 tank company and possibly one additional Chieftain tank platoon were 25X1  
removed from Shiraz Barracks and Armor Training Center West [ ] between late October and 25X1  
mid-December. This indicates that the Iranians are continuing to draw on equipment left behind in rear area  
garrisons, probably to supplement that destroyed or captured in the forward areas of conflict. A second  
possibility may be a recent availability of new recruits to man the equipment.

33. (S/D) BMP were observed for the first time at Khash Barracks and Ammunition Depot [ ] 25X1  
[ ] in southeastern Iran in late December. This is the second mechanized infantry battalion of the 88th 25X1  
Division to be upgraded with the BMP. BMP were first observed at Zahaden Barracks Area [ ] in 25X1  
southeastern Iran in the tri-border area during September 1980, and those at Khash had arrived since mid-  
August 1980.

34. (S/D) No change was observed at Hajjiabad Barracks and Brigade Headquarters [ ] in 25X1  
west-central Iran on [ ]. 25X1

**AIR ACTIVITY**

35. (S/D) FLOGGER aircraft were seen for the first time at Shaibah Airfield in Iraq during the reporting 25X1  
period. In Iran, Rapier SAM defenses were reduced at two airfields in Tehran, and the Iranian air-surveillance  
capabilities were significantly enhanced in southeastern Iran with the reoccupation of an EW/GCI site at  
Zahedan. Only limited coverage of Iranian fighter airfields was acquired during the period (Figure 6).

**Iraq**

36. (S/D) The presence of FLOGGER aircraft at Shaibah Airfield for the first time on [ ] was 25X1  
preceded by the identification on [ ] of an RSBN-4N (BIG MAC) short-range navigational system. 25X1  
This system has previously been associated with third-generation Soviet aircraft such as the FLOGGER,  
FITTER, and CANDID.

**SECRET****Iran**

37. (S/D) Removal of the two Rapier SAM sites at Tehran/Doshan Tappeh Airfield [ ] 25X1  
probably between [ ] as well as the removal of two of the four Rapier SAM sites at 25X1  
Tehran/Mehrabad International Airfield ( [ ] has occurred. One of the two sites at Tehran/Mehra- 25X1  
bad was removed between [ ] the second was removed between [ ] 25X1  
The Iranians might feel that the threat of Iraqi airstrikes on airfields in the Tehran area had greatly diminished,  
and the Iranians have probably moved these defenses to more sensitive areas.
38. (S/D) The number of F-4 at Tehran/Mehrabad decreased from 24 to 15 F-4 between [ ] 25X1  
[ ] while the number of C-130s increased from seven to ten. The number of F-5 present remained 25X1  
constant at 13. One C-130, seven F-27, three T-33, one CH-47, and three AB-214 helicopters were at Tehran/- 25X1  
Doshan Tappeh on [ ]
39. (S/D) Coverage of fighter airfields in Iran during the month was limited. Khatami AB Airfield (BE 25X1  
[ ] was imaged three times, [ ] During this time period, 25X1  
aircraft counts were as follows: ten to 14 F-14, four to seven F-5, one to two C-130, and one to two KC-707.  
The second major F-14 base, Shiraz International Airfield [ ] was cloud covered on [ ] 25X1
40. (S/D) Two operational and eight derelict F-5 and one AH-1/AB-214 helicopter were at Tabriz 25X1  
Airfield [ ] in northwest Iran on [ ] The airfield did not appear to have sustained any 25X1  
further damage since that reported during the [ ] Three occupied Rapier SAM sites,  
four occupied 35mm AA gun sites, and eight occupied ZU-23 AA gun sites remained around the airfield.
41. (S/D) The six AB-214 and five probable Jet Ranger helicopters which were dispersed east-northeast of 25X1  
the center of the runway at Karaj Airfield [ ] had departed by [ ]
42. (S/D) The reoccupation of the EW/GCI site at Zahedan Airfield in southeastern Iran enhanced the 25X1  
Iranian EW/GCI network. This site is capable of providing air surveillance of the tri-border area of Iran,  
Afghanistan, and Pakistan, as well as the eastern region of Iran. One probable AN/TPS-43 EW/GCI radar and  
five associated electronics vans were set up in the partially fence-secured site between [ ] 25X1  
[ ] One possible height finder, one unidentified vehicle/piece of equipment, three cargo trucks, four 25X1  
light utility vehicles, one probable generator, and three large probable trailers were observed at the site on [ ] 25X1  
[ ] This site was first occupied in early July by one back-to-back EW radar, 25X1  
possibly a Marconi S-330; one van-mounted height finder; and two mast antennas. This electronics equipment  
was removed between [ ] 25X1
43. (S/D) One 747, one 707, two 727, one 737, one Jet Ranger, and one small straight-wing aircraft were 25X1  
at Zahedan Airfield on [ ] a second 707, a 737, a small straight-wing  
aircraft, and one AB-214 helicopter had arrived, and one 727 had departed.

**NAVAL ACTIVITY**

44. (S/D) Limited coverage of Iraqi naval facilities precluded determining the level of Iraqi naval activity.  
In Iran, naval activity at four facilities remained at a low but constant level (Figure 6).

**Iraq**

45. (S/D) Al Basrah Naval Base [ ], Umm Qasr Naval Base [ ], and Umm 25X1  
Qasr Port Facilities [ ] were imaged during the reporting period. Although there was some 25X1  
movement/repositioning of vessels at and near the facilities, no major changes in order-of-battle have been  
observed at any of the facilities since late November.
46. (S/D) Only an Osa PTG remained at Umm Qasr Naval Base on [ ] Four additional Osa 25X1  
PTGs were in the area of the port facilities—two at the quay, one in midriver, and one on the repairways south  
of the facility. In addition, a T-43 MSF, one P-6 PT, and two probable Zhuk PB had arrived at the port since [ ] 25X1  
[ ] A Polnocny LSM remained moored in midriver. 25X1
47. (S/D) Movement of vessels also occurred at Al Basrah Naval Base between [ ] 25X1  
[ ] One SO-1 PCS and one Polnocny LSM had been moved from midriver to the quay, while one T-43 25X1  
departed the quay and was moored in midriver. On [ ] one Osa PTG, three P-6 PT, one SO-2 PCS, and 25X1  
three Yevgenya MSI were still at the quay, while one SO-1 PCS, one Polnocny LSM, and one SPLIT-B AX  
remained in midriver. Two additional P-6 PT remained at a quay 2 nm upriver from the naval base.

**Iran**

48. (S/D) Iranian naval activity was at a low but constant level throughout the reporting period.
49. (S/D) At Bandar Abbas Port Facility Suru [ ], the following vessels were absent 25X1  
from port at least once between [ ] and were probably part of a task force 25X1  
patrolling the Strait of Hormuz area: one Sumner DDG, two Vosper MK-5 FFG (SAAM), two PGM-71  
PC, one MK-III PB, two PBR, two Hengham LST, one Bandar Abbas AOR, and one Kangan AWT.

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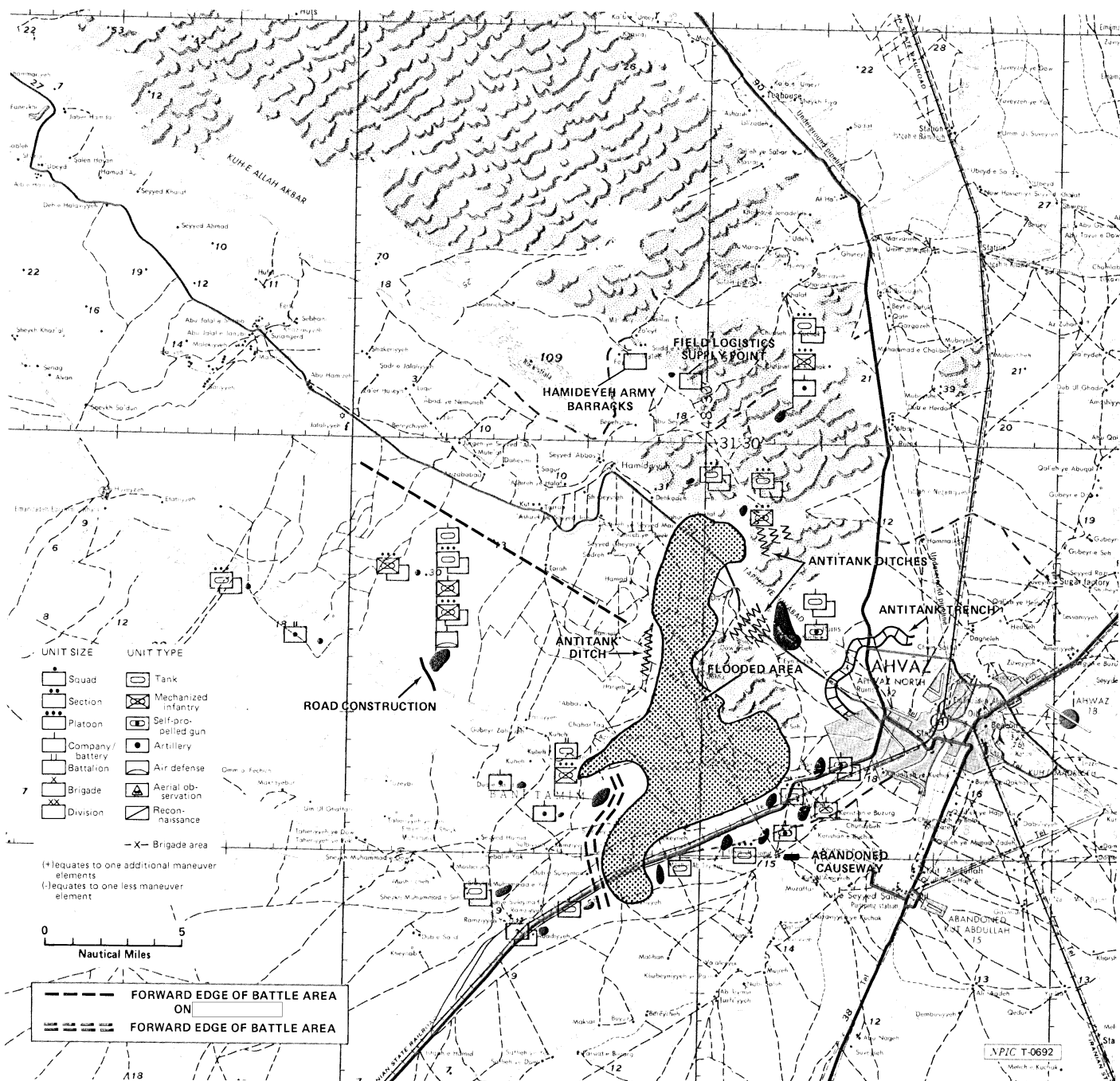


FIGURE 3. GROUND FORCES ACTIVITY, AHVAZ AREA, IRAN, ON [ ]

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Vessels observed in port throughout the reporting period included one Battle DDG, one Sumner DDG, three Vosper MK-5 FFG (SAAM), one PGM-71 PC, five MK-III PB, five PBR, one Bandar Abbas AOR, and one Kangan AWT. Repair facilities at the port were in use as one Sumner DDG, two Vosper MK-5 FFG, one Hengham LST, and one LCU each spent time in one or the other of the two graving docks.

50. (S/D) Only one PF-103 PG, two La Combattante-IIB PTG, and one MK-III PB were absent from Bushehr Naval Base [ ] at any given time between [ ] At least one PF-103 PG, six La Combattante-IIB PTG, seven MK-III PB, and one PGM-71 PC were observed in port on the seven coverages of the facility. One PGM-71 PC arrived from Bandar Abbas Port Facility Suru between [ ] 25X1
51. (S/D) Of the five Wellington PBA and four Winchester PBA/LCMA usually observed at Khark Island Hovercraft Base ( [ ] ), only one Wellington PBA was absent on the four dates the base was imaged. 25X1
52. (S/D) Three Winchester PBA/LCMA remained at Khosrowabad Naval Base Supply and Repair Facility ( [ ] ) No battle damage was observed at this facility on the Shatt Al Arab, 17 nm southeast of Abadan. 25X1

### COMMERCIAL SHIPPING

53. (S/D) Commercial port facilities in Iraq and Iran, including those on the Shatt Al Arab, were imaged during the reporting period. In Iraq, there was only minor repositioning of vessels at the ports in comparison to an extremely high level of activity in the Bandar Abbas area of Iran (Figure 6).

#### Shatt Al Arab

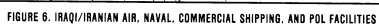
54. (S/D) The area along the Shatt Al Arab River from 30-36-00N 047-46-00E to 30-29-00N 047-53-10E including Al Basrah Port Facilities [ ] Iraq, was imaged on [ ] 25X1
- [ ] No battle damage was observed at the port. Three freighters, which had been moored downstream from Al Basrah, arrived at the quay between [ ] Two of these freighters were moored outboard of the other freighters at the quay. Seventeen freighters (including one Leninsky Komsomal) two container ships, one medium tanker, and two coastal/small freighters were at the quay. One freighter, which was previously moored downstream from the port, had been moved into an ARD-D and was out of the water. Nine freighters, one bulk carrier, five coastal/small freighters, and one ARD-D were moored in midriver south of the port. By [ ] the freighter had been removed from the ARD-D and was moored downstream. 25X1
55. (S/D) On subsequent coverage of [ ] the Shatt Al Arab River from 30-18-50N 048-17-40E to 30-04-40N 048-25-50E was imaged through heavy clouds. Nine coastal/small freighters were still low-in-the-water or aground, 1 nm southeast of Abadan Port Facilities [ ] One freighter was still moored in open water, approximately 18 nm southeast of the port. 25X1

#### Iran

56. (S/D) Lack of access to the Persian Gulf ports of Abadan and Khorramshahr and restricted access to Bandar-E Shahpur have increased Iranian dependence on the commercial ports at Bandar Abbas Suru, Shah Bandar Abbas, and Bushehr. Although materiel was being delivered through these facilities, none could be identified as military equipment.
57. (S/D) A total of ten dry bulk carriers, 16 general cargo ships, two tankers, and seven coastal freighters were observed offloading at Bandar Abbas Port Facility Suru [ ] 25X1
- [ ] No empty berthing space was available on any of the five days this port was imaged. On two occasions, commercial ships were observed offloading at piers usually used by Iranian naval vessels. An average of 13 general cargo ships and 15 coastal freighters were in the holding area outside the port facility awaiting berthing space on four dates during the reporting period. 25X1
58. (S/D) A total of eight dry bulk carriers, 13 general cargo ships, and one coastal freighter were observed at Shah Bandar Abbas Port Facility [ ] which was imaged four times during the reporting period. On each occasion, from four to six ships were moored in the protective anchorage and were being offloaded onto barges, rather than waiting for available quay space. This activity indicated the Iranians' urgent need for the supplies/materiel being received. 25X1
59. (S/D) The northern Persian Gulf ports of Bandar-E Shahpur and Bushehr were imaged once and twice, respectively, during the reporting period. Three small dry bulk carriers were at Bandar-E Shahpur Port Facilities [ ] three general cargo ships and one coastal freighter were at Bushehr Port Facilities [ ] Three general cargo ships and two coastal freighters were present on [ ] 25X1
60. (S/D) Increased activity has been observed at Chah Bahar Port Facilities ( [ ] ) since mid-November 1980 (Figure 7). Between [ ] grading activity was observed, and by [ ] 25X1
- [ ] posts had been erected around three sides of the facility, enclosing the pier and six identical support buildings. By [ ] canvas had been strung between the posts, creating a security screen. 25X1

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Most of the canvas had fallen from the poles between [ ] and had not been replaced by [ ] 25X1  
[ ] small boats began to bring in supplies/materiel, which 25X1  
were subsequently stacked in open storage in the facility. The amount of supplies/materiel in open storage  
(some of which could be identified as tires) continued to increase on [ ] 25X1  
[ ] flatbed trucks had begun arriving at the port, loading supplies/materiel, and departing. As 25X1  
many as 17 trucks were aligned outside the port facility on [ ] waiting to enter. The origin or 25X1  
final destination of these supplies is unknown.

61. (S/D) By [ ] all activity at this facility seemed to have ceased. No trucks or personnel 25X1  
were in the immediate vicinity of the pier, and most of the supplies/materiel had been removed.

62. (S/D) Activity appeared to be at a normal level at the Caspian Sea ports of Bandar-E Pahlavi  
and Nau Shahr, imaged one and three times, respectively, during the reporting period.

### **POL FACILITIES**

63. (S/D) Thirty-one Iraqi POL-related facilities were observed—one in the north, 12 near Kirkuk,  
two west of Khanger, four north of Al Amarah, and 12 in the southeastern part of the country. New  
damage was observed at two facilities, and increased air defenses were observed at three facilities. Twenty-  
eight Iranian POL-related facilities were imaged—one at Tabriz, one near Tehran, one west of Kerman-  
shah, one at Esfahan, and 24 in the southwestern part of the country. No new damage was observed at any  
of these facilities. Extensive repair work was underway at Khark Island, and a Rapier SAM site was newly  
deployed southeast of the POL refinery in Tabriz (Figure 6).

#### **Iraq**

64. (S/D) One additional large POL tank was destroyed at Buzurgan Gas-Oil Separation Plant and 25X1  
Oilfield Plant Complex [ ] The storage capacity at  
this facility has been reduced to no more than 682,800 barrels from a pre-war storage capacity of 1,038,000  
barrels. A three-position AA site was newly deployed west of the facility.

65. (S/D) One small POL tank was destroyed, and three small POL tanks were blackened by smoke at 25X1  
Kirkuk Petroleum Storage Town [ ] This damage probably occurred between [ ] 25X1  
[ ] but haze and obliquity prevented an earlier assessment. This reduces the total  
capacity of the facility from the pre-war storage capacity of 231,597 barrels to 222,628 barrels.

66. (S/D) A large earthen berm, similar to the berms at Baghdad Nuclear Research Center, was 25X1  
under construction immediately north of Kirkuk Petroleum Refinery and Storage [ ] 25X1  
[ ] (Figure 8). Initial ground scarring for this construction was observed on [ ] This  
construction was probably a result of a recent airstrike against this facility. The pipeline between Kirkuk,  
Iraq, and Ceyhan, Turkey, begins at this facility.

#### **Iran**

67. (S/D) Fires at the POL facilities on Khark Island, resulting from the Iraqi airstrikes in early 25X1  
December, had been extinguished by [ ] and no further damage to facilities occurred during the  
reporting period. Tankers continued to load at the island using either the Azerpad (sea island) oil-loading  
terminal (two VLCC, one on both [ ] or the Iran Pan-American Oil Company Sea 25X1  
Loading Terminal (two VLCC, one on both [ ] one medium general 25X1  
cargo ship was observed at the Khark Chemical Company loading jetty. No use was made of the offshore  
oil-loading jetty on the eastern side of the island, probably because of the extensive repair work being  
done on the pipelines which connect the jetty with the Oil Service Company of Iran Tank Farm. By [ ] 25X1  
[ ] approximately 550 meters of the pipeline had been dismantled. This pipeline was probably damaged 25X1  
during the first Iraqi airstrike on Khark Island in early October.

68. (S/D) Tabriz POL Refinery [ ] appeared to be operational and did not appear to have 25X1  
sustained further damage on [ ] A Rapier SAM site was newly identified 3 nm southeast of the 25X1  
facility. The SAM equipment was probably moved to this location from Tabriz Airfield where the number of  
Rapiers in defense of the airfield had dropped from four to three. Ten probable occupied ZU-23 AA gun sites  
and one occupied 35mm gun site remained around the perimeter of the refinery. Defense of POL refineries and  
storage facilities continues to be a priority throughout Iran.

### **OTHER**

69. (S/D) Significant developments in Iraq included continued work on berms and camouflage at  
Baghdad Nuclear Research Center and construction activity at Salman Pak Sensitive Operations Storage  
Facility. In Iran, a high level of rail traffic continued to be observed at Dzulfa and Jolfa, and a large  
crowd was observed at Tehran University. In Saudi Arabia, offloading of military supplies and armor was  
observed at Tuwwal, an East German Ro/Ro ship was at Yanbu, and increased Iraqi aircraft activity was  
observed at Khamis Mushatt Airfield. Iraqi CANDID were observed in Sana, North Yemen. Crude oil  
delivery from Kirkuk, Iraq, to Ceyhan, Turkey, via pipeline was evident.

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**SECRET****Iraq**

70. (S/D) No additional battle damage was observed at Baghdad Nuclear Research Center on [ ] 25X1  
 [ ] Figure 9). Construction was continuing on large earthen berms on the west side of the 25X1  
 French reactor and the Italian laboratory areas. Camouflage netting was suspended from 80 percent and  
 50 percent of the metal screens/scaffolding surrounding the French reactor and the Italian laboratory  
 areas, respectively, on [ ] Three possible SA-9 TELR were newly deployed along the northeast 25X1  
 perimeter of the facility since [ ] most of the camouflage netting had either been 25X1  
 removed or fell off the screens/scaffolding. An additional SA-6 battalion was newly deployed 4 nm south-  
 southeast of the facility at 33-07-40N 044-31-35E on [ ] 25X1
71. (S/D) An earthen berm was constructed along the southern edge of the railroad track in the  
 operational test area at Salman Pak Sensitive Operations Storage Facility between [ ] 25X1  
 [ ] Ground scarring and the foundation for a small building were also observed. Fifteen separately 25X1  
 secured, arch-roofed buildings; two earthen revetments; and two areas of excavation were observed in the  
 support area. Construction on a high-bay multistory building in the engineer/operations area appeared to  
 be externally complete.

**Iran**

72. (S/D) The railyards at Dzhulfia Railroad Yard [ ] and Jolfa Railroad Station and 25X1  
 Yards [ ] continued to be congested on [ ] No military equipment/- 25X1  
 materiel was discernible.
73. (S/D) A crowd of more than 1,000 people was aligned in rows in an open area at Tehran  
 University, 1.5 nm west of the US Embassy Tehran, Iran [ ] 25X1
74. (S/D) No unusual activity was observed at or near the US Embassy compound on [ ] 25X1  
 [ ] 25X1

**Saudi Arabia**

75. (S/D) Possible Iraqi resupply activity was observed at Tuwwal Port Facilities [ ] 25X1  
 during the reporting period. At least 114 Iraqi tank transporters arrived at the port between [ ] 25X1  
 [ ] Coverage on [ ] showed that a Polish Konin-class merchant ship with a deck cargo 25X1  
 consisting of six T-55 medium tanks had arrived at the port (Figure 10). By [ ] 50 tanks had been 25X1  
 offloaded and were on the tank transporters in the transshipment area (Figure 11). Additionally, 50  
 van/cargo trucks were probably offloaded. Cloud cover precluded a complete assessment of the port  
 facility on [ ] however, one heavy-lift tank transporter with a tank was seen leaving the facility. 25X1
76. (S/D) A probable East German Ro/Ro merchantship (ASCHBERG) was moored at the quay at  
 Yanbu Port Facilities [ ] Discernible deck cargo consisted of buses, trucks, 25X1  
 and small unidentified vehicles.
77. (S/D) An increase in Iraqi cargo aircraft was observed at Khamis Mushatt Airfield, Saudi  
 Arabia [ ] (Figure 12). The four previously observed CANDID [ ] 25X1  
 [ ] were joined by three CUB, two CURL, and three COKE aircraft. 25X1

**North Yemen**

78. (S/D) Two possible Iraqi CANDID were observed at Sana Airfield International [ ] 25X1  
 [ ], North Yemen, on [ ] 25X1

**Turkey**

79. (S/D) Crude oil was once again being delivered to Ceyhan, Turkey, via the pipeline from Kirkuk,  
 Iraq. Imagery of [ ] revealed that one large oil-storage tank at Ceyhan Crude Oil Storage Southeast 25X1  
 [ ] had been filled. All of the storage tanks (seven large and four small) were empty on imagery of 25X1  
 [ ] In addition, three large oil tankers were in the roadstead on [ ] and one of the 25X1  
 tankers was being maneuvered toward the oil transfer pier. No tankers were observed on [ ] coverage, 25X1  
 while one was observed on [ ] 25X1

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**SECRET****REFERENCES****IMAGERY**

(S/D) All applicable satellite imagery acquired from [ ] was used in the preparation of this report. 25X1

**MAPS OR CHARTS**

DoD. Joint Operations Graphics, Various Sheets (UNCLASSIFIED, Distribution Restricted)

**DOCUMENTS**

1. NPIC. Z-20195/80, IAR-0348/80, *Iraq/Iran Military Summary*, [ ] (S), 12 Dec 80 (SECRET) [ ] 25X1  
25X1

2. DIA. DDB-1100-IZ-80, *Ground Order of Battle: Iraq (U)*, Jan 80 (SECRET) [ ] 25X1

DIA. DDB-1100-IR-78, *Ground Order of Battle: Iran (U)*, Aug 78 (SECRET) [ ] 25X1

[ ] 25X1

(S) Comments and queries regarding this report are welcome. They may be directed to the South Asia/Arabia Branch, Third World Forces Division, Imagery Exploitation Group, NPIC, [ ] 25X1

## GLOSSARY OF ACRONYMS AND ABBREVIATIONS

*This glossary in its entirety is UNCLASSIFIED*

AA	Antiaircraft	MSF	Fleet minesweeper
AAA	Antiaircraft artillery	MSI	Inshore minesweeper
AD	Air defense	NM	Nautical miles
AOR	Replenishment oiler	PB	Patrol boat
APB	Barracks ship	PBA	Patrol boat (air cushion)
APC	Armored personnel carrier	PBR	River/roadstead patrol boat
AR	Repair ship	PC	Patrol craft
ARD-D	Floating drydock	PCL	Small submarine chaser
ARD-T	Auxiliary repair dock	PCS	Submarine chaser
AW	Air warning	PG	Patrol escort
AWT	Water carrier	PGM	Motor gunboat
AX	Training ship	PMP	Heavy folding ponton bridge
CP	Command post	POL	Petroleum, oil, and lubricant
DD	Destroyer	PT	Torpedo boat
DDG	Guided missile destroyer	PTG	Missile attack boat
DIW	Dead in the water	RTP	Rail-to-road transfer point
EW	Early warning	RO/RO	Roll-on/roll-off
FA	Field artillery	SAM	Surface-to-air missile
FFG	Guided missile frigate	SP	Self-propelled
GCI	Ground controlled intercept	SPAA	Self-propelled antiaircraft
LCMA	Medium landing craft (air cushion)	SPG	Self-propelled gun
LCM	Medium landing craft	SSM	Surface-to-surface missile
LCU	Utility landing craft	TEL	Transporter-erector-launcher
LSM	Medium amphibious assault landing ship	TELRL	Transporter-erector-launcher radar
LST	Amphibious vehicle landing ship	TMM	Truck-mounted bridge
MRL	Multiple rocket launcher	VLCC	Very large crude carrier
MSC	Coastal minesweeper		

**Secret**

**Secret**